

100
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112a
112b
112c
114a
114b
114c
116a
116b
116c

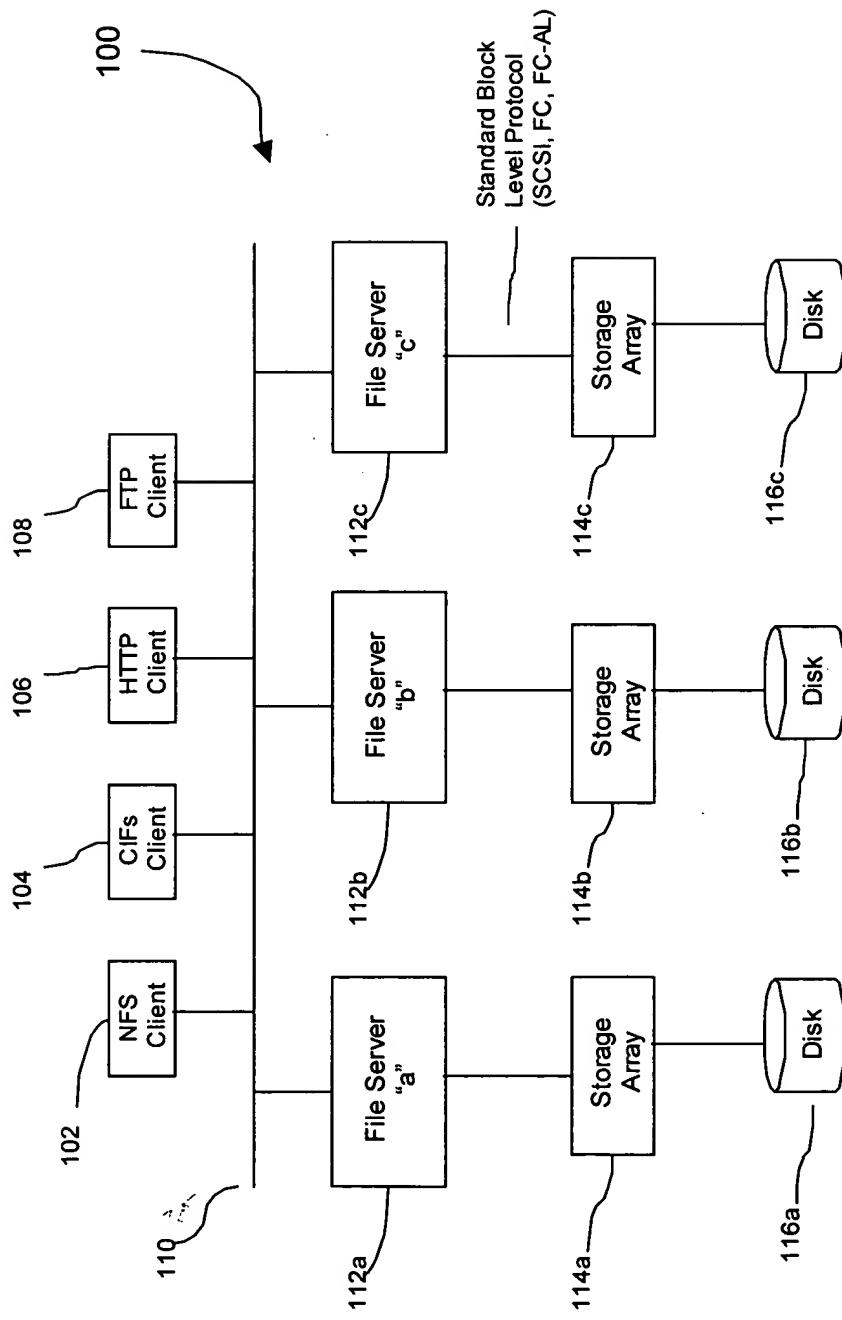


FIG. 1
(Related Art)

202 204 206 208 200
210 212a 212b 212c
214a 214b 214c
216a1 216a2 216b 216c1 216c2

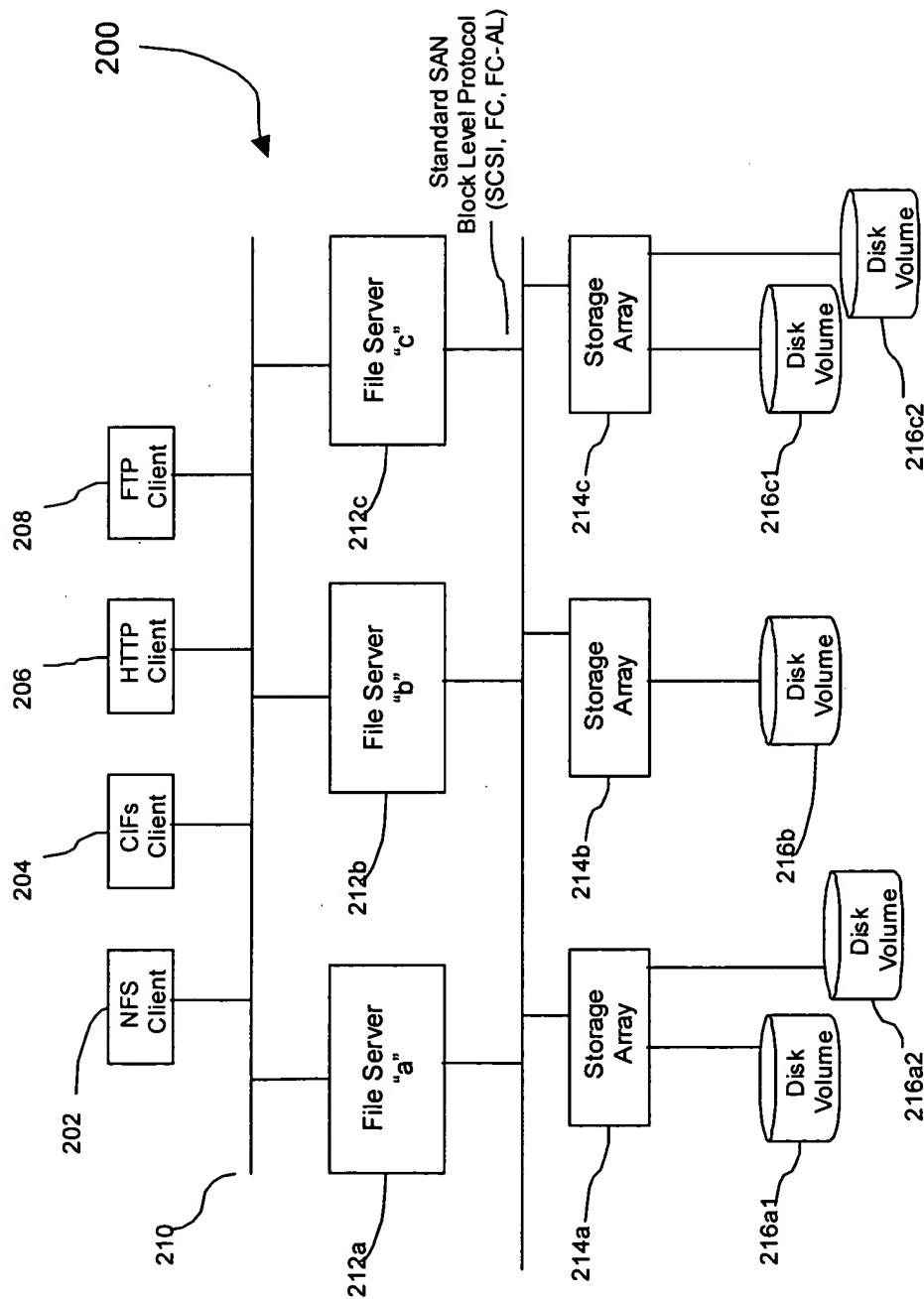


FIG. 2
(Related Art)

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312a
312b
312c
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316a
316b
318a
318b
320
324a
324b
324c
324d
325a
325b
326a
326b
326c
326d
327a
327b
329
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332
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329
324 Distributed Bitfile Storage Service (CDB)

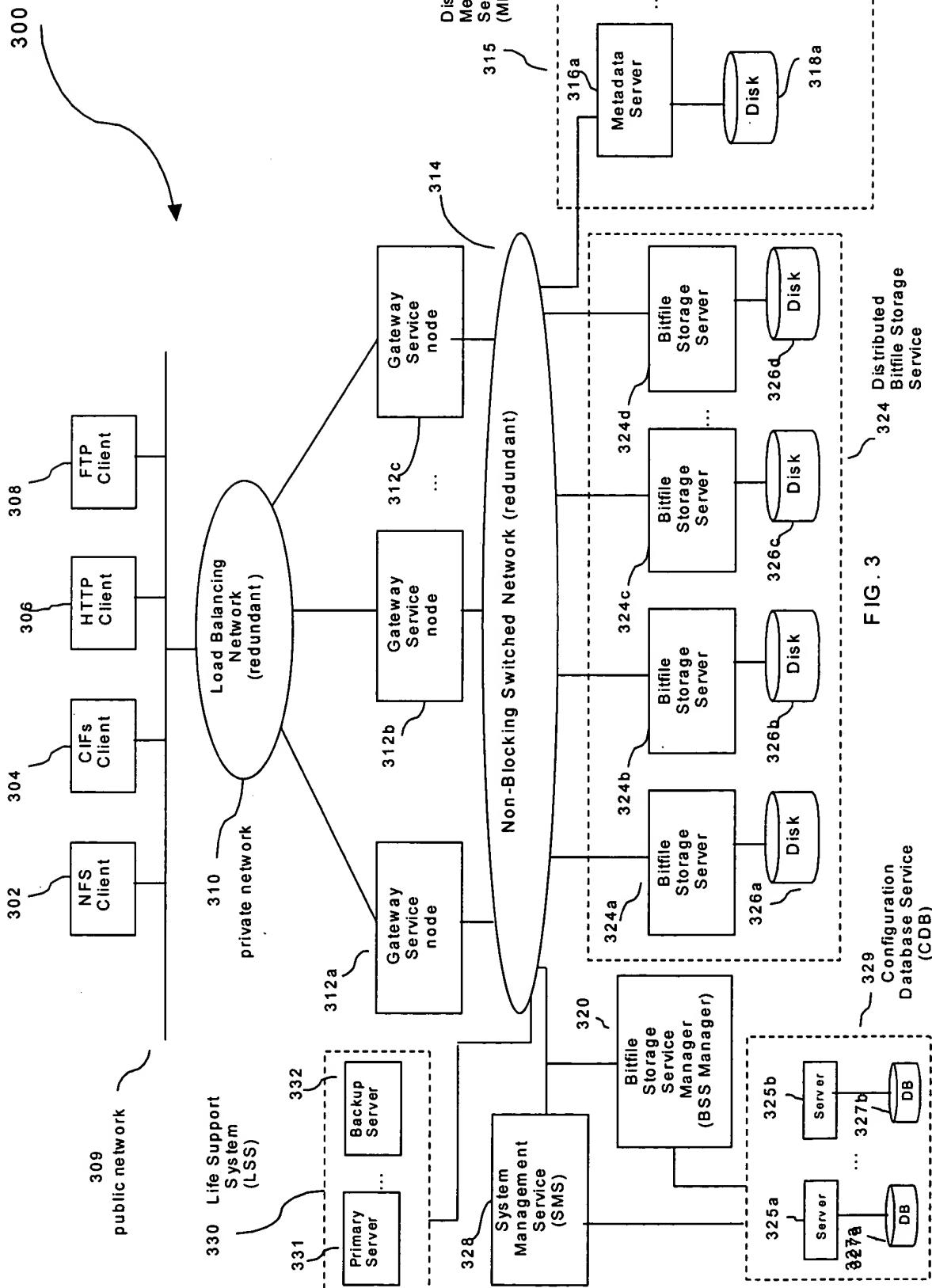


FIG. 3

400 Scalable File Storage System
405 private network
Load Balancing Network (redundant)

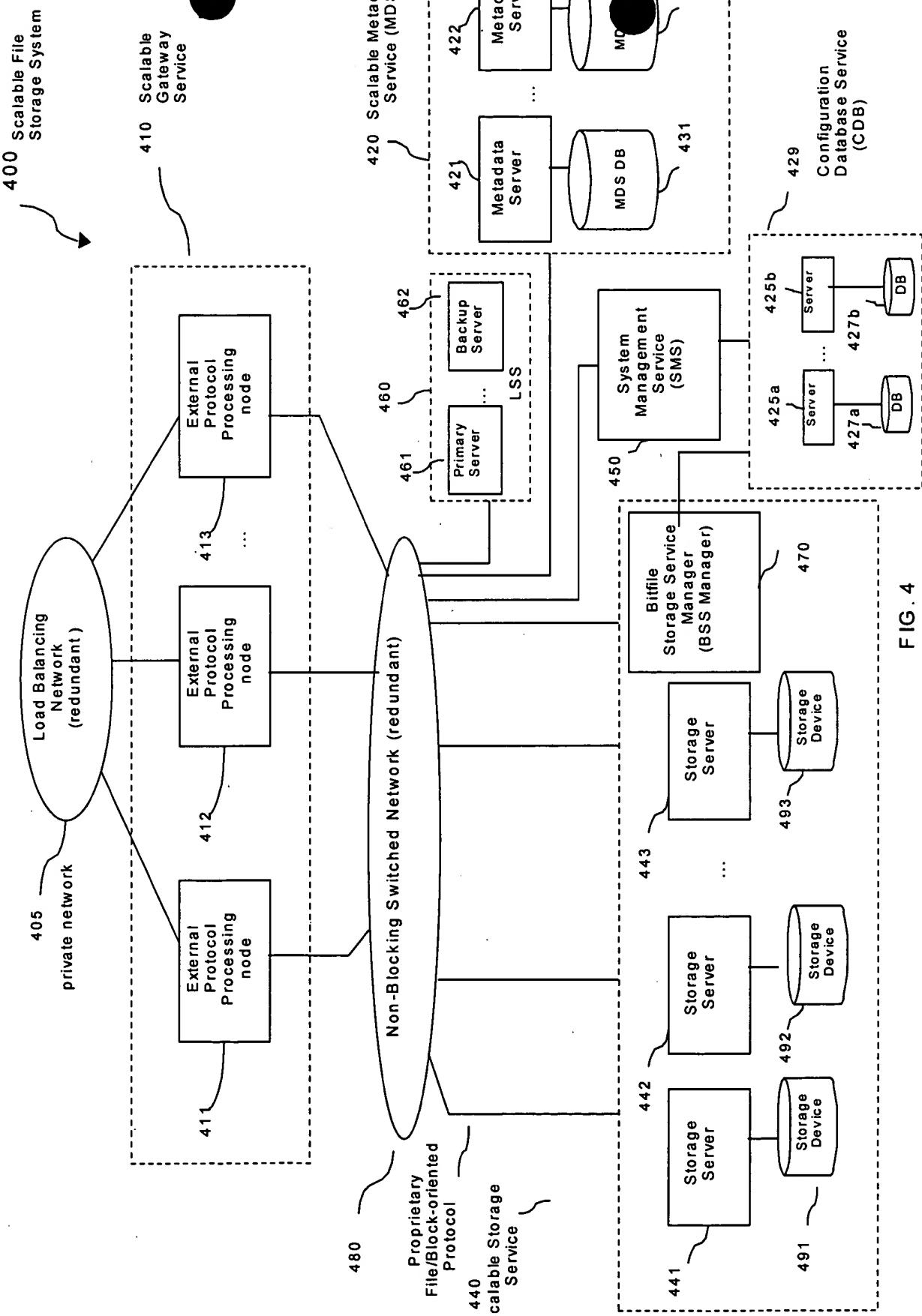


FIG. 4

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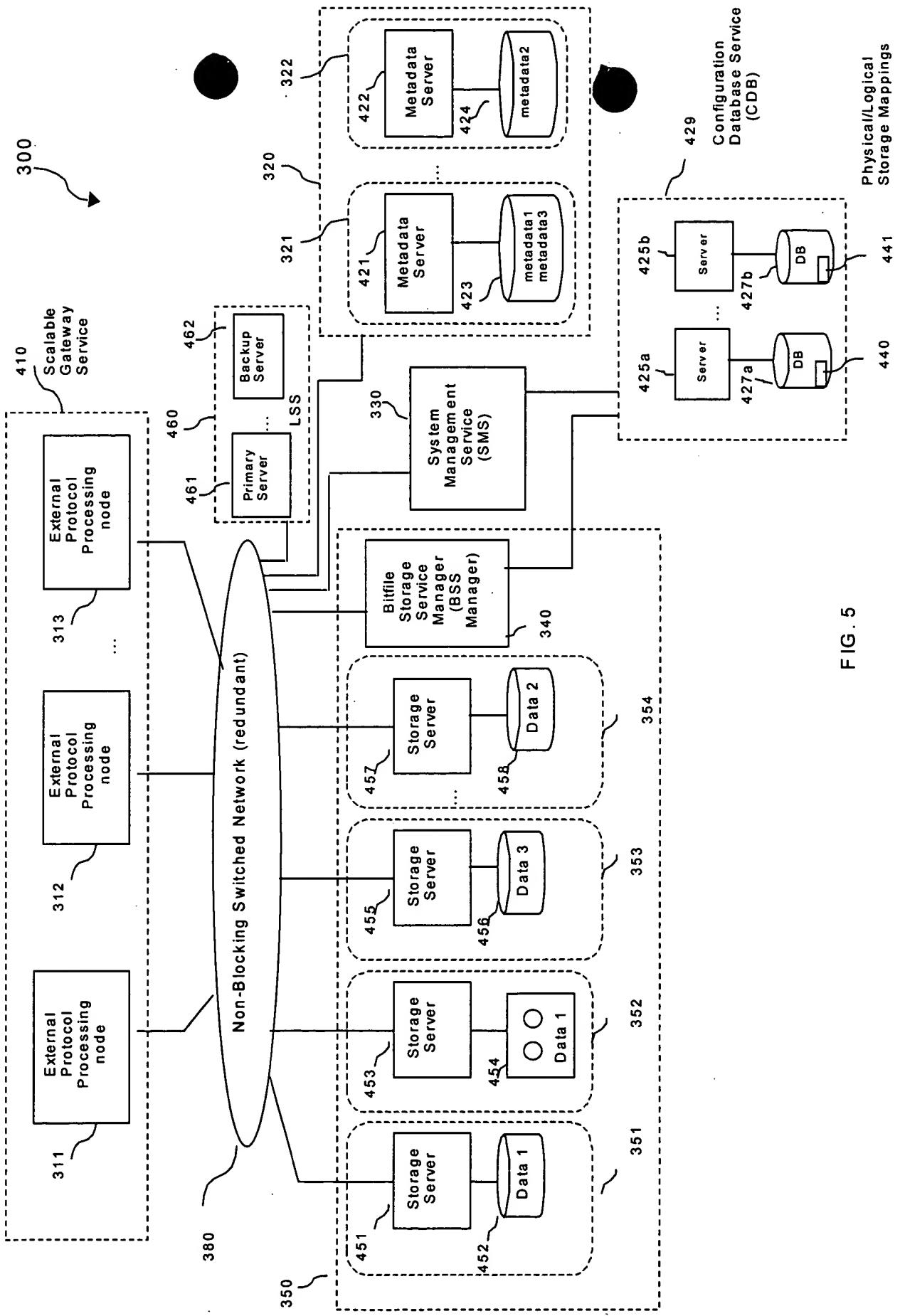


FIG. 5

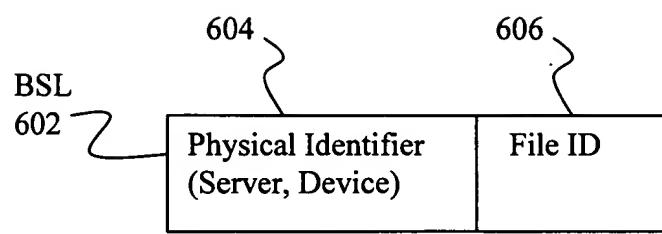


FIG. 6A

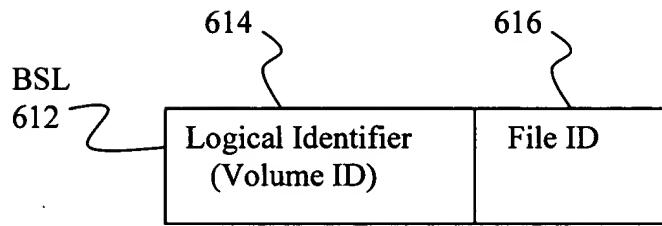


Table 623

Logical Identifier	Physical Identifier
Vol. 1	(Server x, Device x)
Vol. 2	(Server y, Device y)
• • • •	• • • •

FIG. 6B

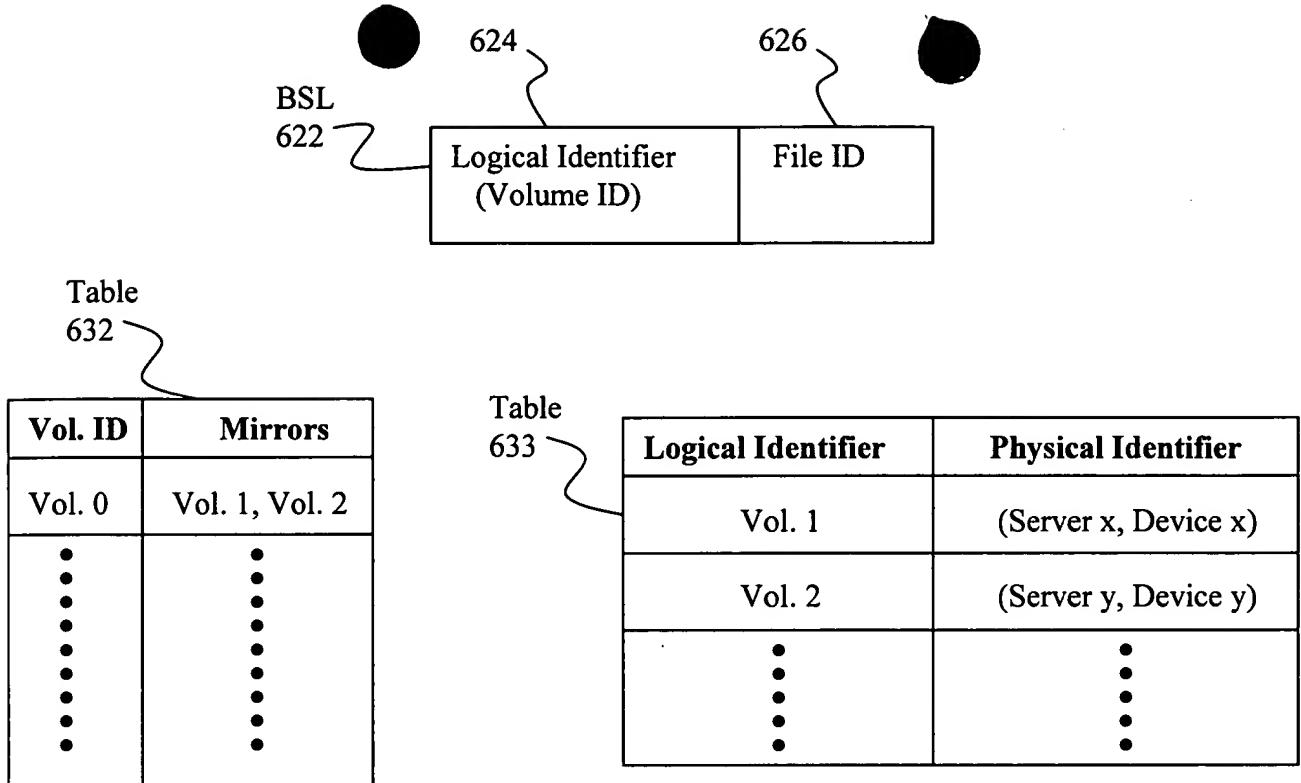


FIG. 6C

FIG. 6C: Diagram illustrating the structure of a Logical Identifier (Volume ID) and its mapping through two tables. The Logical Identifier is divided into two sections: 624 and 626. A BSL (Block Selection List) entry 622 maps to Table 632, which contains Vol. ID and Mirrors information. Table 632 maps to Table 633, which contains Logical Identifier and Physical Identifier information.

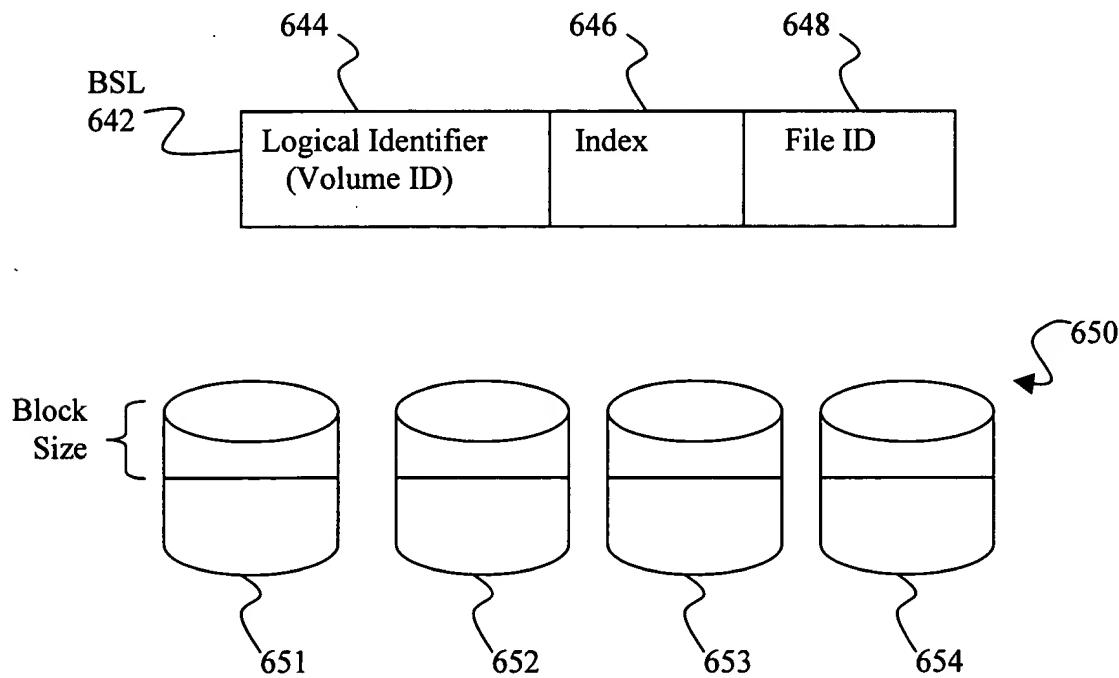


FIG. 6D

FIG. 6D: Diagram illustrating the structure of a Logical Identifier (Volume ID) and its mapping to physical storage blocks. The Logical Identifier is divided into three sections: 644, 646, and 648. A BSL (Block Selection List) entry 642 maps to Table 632, which contains Vol. ID and Mirrors information. Table 632 maps to Table 633, which contains Logical Identifier and Physical Identifier information. The Physical Identifier is mapped to four storage blocks (651, 652, 653, 654), with a Block Size indicated for the first two blocks (651 and 652). An arrow 650 points from the right side of cylinder 654 back to the right side of the Logical Identifier box.

610 611 612 613 614
External Protocol Processing node
External Protocol Processing node
External Protocol Processing node

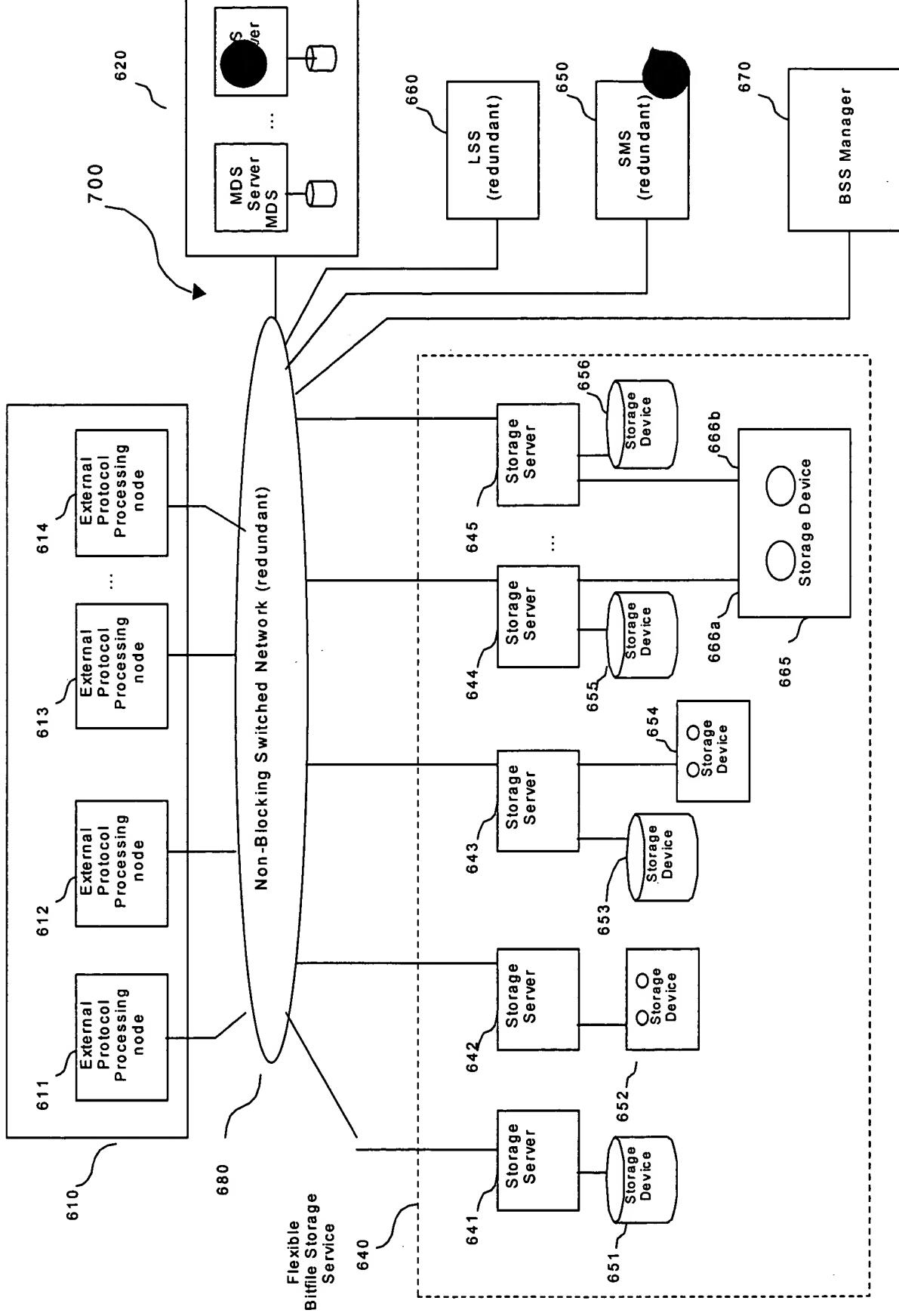


FIG. 7

800
810
820
830
840

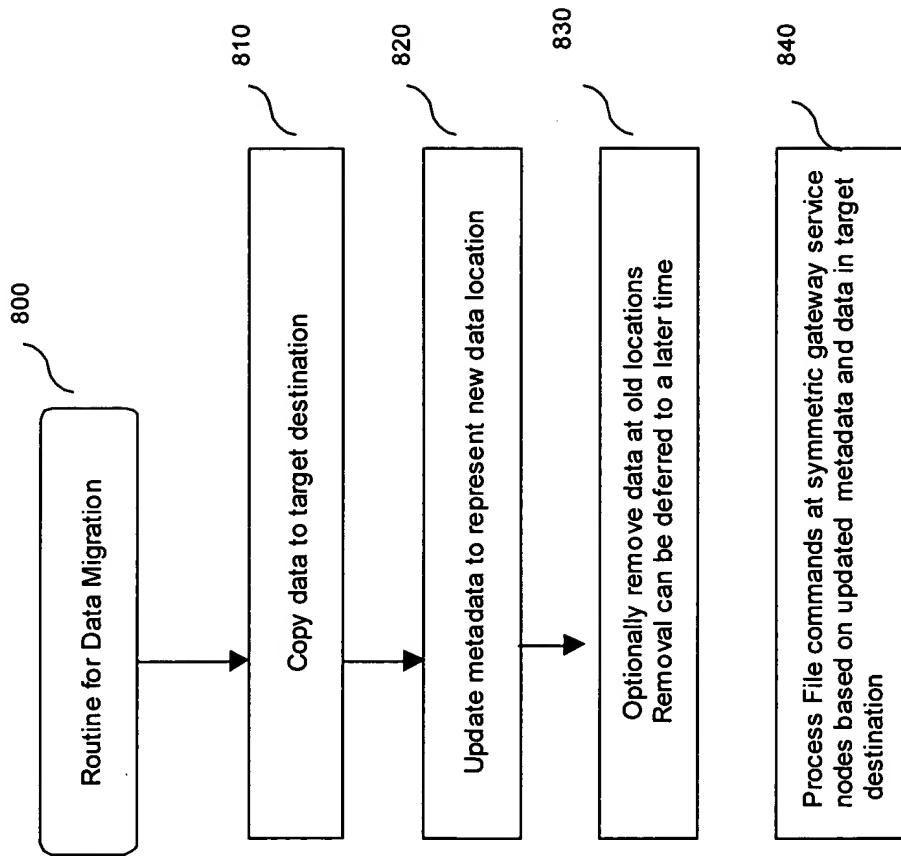


FIG. 8